

## United States Department of Agriculture Natural Resources Conservation Service

### Ecological Site Description

**Site Type:** Rangeland

**Site Name:** Saline Lowland, drained (SLdr), 7-9" P.Z., Green River & Great Divide Basins

**Site ID:** R034AY140WY

**Major Land Resource Area:** 34A- Cool Central Desertic Basins and Plateaus

### Physiographic Features

This site usually occurs on nearly level to gently sloping alluvial fans and alluvial bottoms. These sites receive additional run-in water from higher sites, but have a rare flood hazard because they normally have deep, well defined stream channels.

**Landform:** Alluvial fans & alluvial bottoms

**Aspect:** N/A

	<u>Minimum</u>	<u>Maximum</u>
<b>Elevation (feet):</b>	6000	7200
<b>Slope (percent):</b>	0	5
<b>Water Table Depth (inches):</b>	none within 60 inches	
<b>Flooding:</b>		
<b>Frequency:</b>	none	none
<b>Duration:</b>	none	none
<b>Ponding:</b>		
<b>Depth (inches):</b>	0	0
<b>Frequency:</b>	none	none
<b>Duration:</b>	none	none
<b>Runoff Class:</b>	low	high

### Climatic Features

Annual precipitation ranges from 7-9 inches per year. Wide fluctuations may occur in yearly precipitation and result in more dry years than those with more than normal precipitation. Temperatures show a wide range between summer and winter and between daily maximums and minimums. This is predominantly due to the high elevation and dry air, which permits rapid incoming and outgoing radiation. Cold air outbreaks in winter move rapidly from northwest to southeast and account for extreme minimum temperatures. Extreme storms may occur during the winter, but most severely affect ranch operations during late winter and spring.

Daytime winds are generally stronger than nighttime and occasional strong storms may bring brief periods of high winds with gusts to more than 50 mph.

Growth of native cool season plants begins about April 15 and continues to about July 15. Some green up of cool season plants may occur in late September if moisture is available.

The following information is from the "Green River" climate station:

	<u>Minimum</u>	<u>Maximum</u>	<u>5 yrs. out of 10 between</u>
Frost-free period (days):	68	121	June 2 – September 5
Freeze-free period (days):	97	132	May 23 – September 19
Annual Precipitation (inches):	<5.32	>9.34 (2 years in 10)	

Average annual precipitation: 7.78 inches

Average annual air temperature: 41.8°F (25.6°F Avg. Min. to 58.1°F Avg. Max.)

For detailed information visit the Natural Resources Conservation Service National Water and Climate Center at <http://www.wcc.nrcs.usda.gov/cgibin/state.pl?state=wy> website. Other climate stations representative of this precipitation zone include “Bitter Creek”, “Farson”, “Rock Springs FAA AP”, and “Wamsutter” in Sweetwater County; “Church Buttes Gas PLT”, and Mountain View” in Uinta County; “Fontenelle”, “La Barge”, and “Sage 4 NNW” in Lincoln County; and “Big Piney” in Sublette County.

## Influencing Water Features

<u>Wetland Description:</u>	<u>System</u>	<u>Subsystem</u>	<u>Class</u>	<u>Sub-class</u>
None	None	None	None	None

Stream Type: None

## Representative Soil Features

The soils of this site are moderately deep (greater than 20” to bedrock) to deep well-drained soils formed in alluvium from sodic or alkaline materials. Layers of the soil most influential to the plant community vary from 3 to 6 inches thick. These soils are moderately to strongly saline and/or alkaline. The surface soil will vary from 2 to 6 inches in thickness. The surface soil will be one or more of the following textures: very fine sandy loam, fine sandy loam, loam, clay loam, silt loam, and silty clay loam. Some soils may contain more soluble salts in the subsoils than in the surface soils.

Major Soil Series correlated to this site include: Absher series and Shellcreek variant.

Other Soil Series correlated in MLRA 34A to this site include: Debone and Corlett and some phases of the Hooper series.

Parent Material Kind: alluvium

Parent Material Origin: sandstone, shale

Surface Texture: loam, very fine sandy loam, silt loam

Surface Texture Modifier: none

Subsurface Texture Group: clay

Surface Fragments ≤ 3” (% Cover): 0

Surface Fragments > 3” (%Cover): 0

Subsurface Fragments ≤ 3” (% Volume): 0

Subsurface Fragments > 3” (% Volume): 0

	<u>Minimum</u>	<u>Maximum</u>
Drainage Class:	well	well
Permeability Class:	slow	moderate
Depth (inches):	15	>60
Electrical Conductivity (mmhos/cm) ≤20”:	4	16
Sodium Absorption Ratio ≤20”:	10	25
Soil Reaction (1:1 Water) ≤20”:	6.6	9.0
Soil Reaction (0.1M CaCl2) ≤20”:	NA	NA

Available Water Capacity (inches) $\leq 30''$ :	2.8	5.7
Calcium Carbonate Equivalent (percent) $\leq 20''$ :	0	10

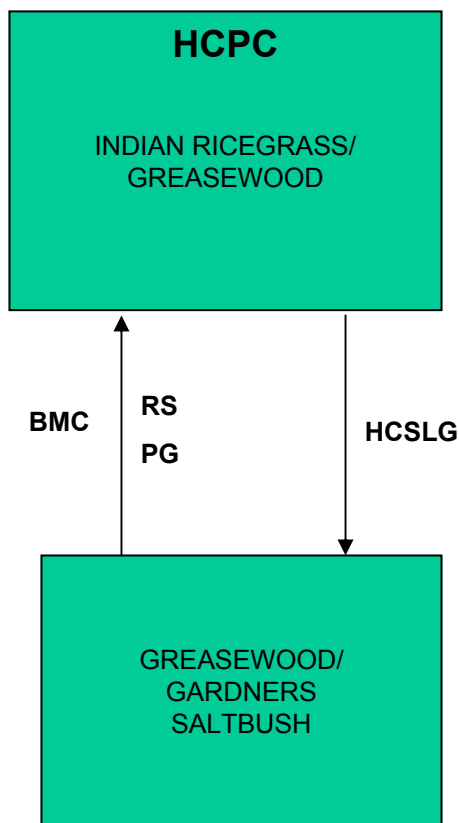
## Plant Communities

### Ecological Dynamics of the Site:

As this site deteriorates from improper grazing management, species such as greasewood will increase and annual forbs will invade. Basin wildrye, Indian ricegrass, and Gardner's saltbush will decrease in frequency and production.

The Historic Climax Plant Community (description follows the plant community diagram) has been determined by study of rangeland relic areas, or areas protected from excessive disturbance. Trends in plant communities going from heavily grazed areas to lightly grazed areas, seasonal use pastures, and historical accounts have also been used.

The following is a State and Transition Model Diagram that illustrates the common plant communities (states) that can occur on the site and the transitions between these communities. The ecological processes will be discussed in more detail in the plant community narratives following the diagram.



BMA – Brush Management (all methods)  
BMC – Brush Management (chemical)  
BMF – Brush Management (fire)  
BMM – Brush Management (mechanical)  
CSP – Chemical Seedbed Preparation  
CSLG – Continuous Season-long Grazing  
DR – Drainage  
CSG – Continuous Spring Grazing  
HB – Heavy Browse  
HCSLG – Heavy Continuous Season-long Grazing  
HI – Heavy Inundation  
LPG – Long-term Prescribed Grazing  
MT – Mechanical Treatment (chiseling, ripping, pitting)

NF – No Fire  
NS – Natural Succession  
NWC – Noxious Weed Control  
NWI – Noxious Weed Invasion  
NU – Nonuse  
P&C – Plow & Crop (including hay)  
PG – Prescribed Grazing  
RPT – Re-plant Trees  
RS – Re-seed  
SGD – Severe Ground Disturbance  
SHC – Severe Hoof Compaction  
WD – Wildlife Damage (Beaver)  
WF – Wildfire

**Plant Community Composition and Group Annual Production**  
**Reference Plant Community (HCPC)**

COMMON NAME/GROUP NAME	SCIENTIFIC NAME	SYMBOL	Annual Production (Normal Year)		
			Group	lbs./acre	% Comp.
<b>GRASSES AND GRASS-LIKES</b>					
<b>GRASSES/GRASSLIKES</b>					
Indian ricegrass	Achnatherum hymenoides	ACHY	1	70 - 175	10 - 25
western wheatgrass	Pascopyrum smithii	PASM	2	70 - 175	10 - 25
basin wildrye	Leymus cinereus	LECI4	3	70 - 105	10 - 15
bottlebrush squirreltail	Elymus elymoides	ELEL5	4	35 - 105	5 - 15
<b>MISC. GRASSES/GRASSLIKES</b>			<b>5</b>	<b>35 - 140</b>	<b>5 - 20</b>
alkali bluegrass	Poa juncifolius (syn. Poa secunda)	POSE	5	0 - 35	0 - 5
alkali muhly	Muhlenbergia asperifolia	MUAS	5	0 - 35	0 - 5
alkali sacaton	Sporobolus airoides	SPAI	5	0 - 35	0 - 5
inland saltgrass	Distichlis spicata	DISP	5	0 - 35	0 - 5
Nuttall's alkaligrass	Puccinellia nuttalliana	PUNU2	5	0 - 35	0 - 5
Sandberg bluegrass	Poa secunda	POSE	5	0 - 35	0 - 5
other perennial grasses (native)		2GP	5	0 - 35	0 - 5
<b>FORBS</b>			<b>6</b>	<b>35 - 70</b>	<b>5 - 10</b>
alkali seepweed	Suaeda spp.	SUAED	6	0 - 35	0 - 5
Hoods phlox	Phlox hoodii	PHHO	6	0 - 35	0 - 5
milkvetch	Astragalus spp.	ASTRA	6	0 - 35	0 - 5
scarlet globemallow	Sphaeralcea coccinea	SPCO	6	0 - 35	0 - 5
woody aster	Xylorhiza spp.	XYLOR	6	0 - 35	0 - 5
other perennial forbs (native)		2FP	6	0 - 35	0 - 5
<b>TREES/SHRUBS</b>					
black greasewood	Sarcobatus vermiculatus	SAVE4	7	70 - 140	10 - 20
Gardners saltbush	Atriplex gardneri	ATGA	8	35 - 105	5 - 15
<b>MISC. SHRUBS</b>			<b>9</b>	<b>0 - 35</b>	<b>0 - 5</b>
bud sagebrush	Picrothamnus desertorum	PIDE4	9	0 - 35	0 - 5
four-wing saltbush	Atriplex canescens	ATCA2	9	0 - 35	0 - 5
winterfat	Krascheninnikovia lanata	KRLA2	9	0 - 35	0 - 5

This list of plants and their relative proportions are based on near normal years. Fluctuations in species composition and relative production may change from year to year dependent upon precipitation or other climatic factors.

## Plant Community Narratives

Following are the narratives for each of the described plant communities. These plant communities may not represent every possibility, but they probably are the most prevalent and repeatable plant communities. The plant composition tables shown above have been developed from the best available knowledge at the time of this revision. As more data is collected, some of these plant communities may be revised or removed, and new ones may be added. None of these plant communities should necessarily be thought of as “Desired Plant Communities”. According to the USDA NRCS National Range and Pasture Handbook, Desired Plant Communities (DPC’s) will be determined by the decision-makers and will meet minimum quality criteria established by the NRCS. The main purpose for including any description of a plant community here is to capture the current knowledge and experience at the time of this revision.

### Indian Ricegrass/Greasewood Plant Community (HCPC)

The interpretive plant community for this site is the Historic Climax Plant Community. This state evolved with grazing by large herbivores and is suited for grazing by domestic livestock. Potential vegetation is estimated at 60% grasses or grass-like plants, 10% forbs, and 30% woody plants. Saline tolerant plants dominate this site. The major grasses include western wheatgrass, Indian ricegrass, basin wildrye, and bottlebrush squirreltail. Other grasses may include Sandberg bluegrass, Nuttall’s alkaligrass, alkali muhly, alkali sacaton, and alkali bluegrass. Greasewood and Gardner’s saltbush are the dominant woody plants. Other shrubs may include fourwing saltbush, bud sagebrush, and winterfat.

A typical plant composition for this state consists of western wheatgrass 15-25%, Indian ricegrass 10-25%, Basin wildrye 10-15%, bottlebrush squirreltail 5-15%, other grasses and grass-like plants 5-20%, perennial forbs 5-10%, greasewood 10-20%, Gardner’s saltbush 5-15%, and 0-5% other woody species. Ground cover, by ocular estimate, varies from 35-50%.

The total annual production (air-dry weight) of this state is about 700 pounds per acre, but it can range from about 400 lbs./acre in unfavorable years to about 900 lbs./acre in above average years.

The following is the growth curve of this plant community expected during a normal year:

Growth curve number: WY0401

Growth curve name: 7-9GR, UPLAND SITES

Growth curve description: ALL UPLAND SITES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	0	10	35	40	10	0	5	0	0	0

(Monthly percentages of total annual growth)

This state is fragile, but well adapted to the Cool Central Desertic Basins and Plateaus climatic conditions. This is a sustainable plant community, but is difficult to reestablish when damaged. (Site/soil stability, watershed function, and biologic integrity).

Transitions or pathways leading to other plant communities are as follows:

- Heavy Continuous Season-Long Grazing will convert this plant community to the *Greasewood/Gardner’s Saltbush Vegetation State*.

### Greasewood/Gardner’s saltbush Plant Community

This plant community is a result of heavy, season-long grazing by livestock. Greasewood dominates, often exceeding 60% of the annual production. Gardner’s saltbush, rhizomatous wheatgrass and bare ground are also a major part of this state. Sparse saline tolerant grasses and annual forbs make up the majority of the understory.

The total annual production (air-dry weight) of this state is about 300 pounds per acre, but it can range from about 100 lbs./acre in unfavorable years to about 500 lbs./acre in above average years.

The following is the growth curve of this plant community expected during a normal year:

Growth curve number: WY0401

Growth curve name: 7-9GR, UPLAND SITES

Growth curve description: ALL UPLAND SITES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	0	0	10	35	40	10	0	5	0	0	0

(Monthly percentages of total annual growth)

The site is at risk and not well protected from excessive erosion. Grazing for wildlife and cattle has been reduced. The biotic integrity of this plant community is not intact. The amount of bare ground puts the watershed at risk for increased runoff.

Transitional pathways leading to other plant communities are as follows:

- Chemical Brush Management and Re-seeding followed by deferment for 1 to 2 years as part of a Prescribed Grazing plan may return this state to near *Historic Climax Plant Community (Indian Ricegrass/Greasewood State)*. Additional deferment may be necessary and should be prescribed on an individual site basis.

## Ecological Site Interpretations

### Animal Community – Wildlife Interpretations

**Indian Ricegrass/Greasewood Plant Community (HCPC):** The predominance of woody plants in this plant community provides winter grazing for deer and antelope. Suitable thermal and escape cover for deer may be limited due to the low quantities of tall woody plants. Structural diversity provides foraging, roosting, and nesting areas for song birds as well as desirable habitat for jackrabbits and cottontail rabbits. Sagebrush obligate species may frequent the area, but do not prefer this habitat.

**Greasewood/Gardner's Saltbush Plant Community:** The predominance of woody plants in this plant community provides winter grazing for deer and antelope. Suitable thermal and escape cover for deer may be slightly improved from the Historical Climax Plant Community. Structural diversity provides foraging, roosting, and nesting areas for song birds as well as desirable habitat for jackrabbits and cottontail rabbits. Sagebrush obligate species may frequent the area, but do not prefer this habitat.

## Animal Preferences (Quarterly - 1,2,3,4) for commonly occurring plants in MLRA34A, 7-9 inch Green River &amp; Great Divide Basins

COMMON NAME/ GROUP NAME	SCIENTIFIC NAME	SCIENTIFIC SYMBOL	Cattle	Sheep	Horses	Mule Deer	Antelope	Elk
<b>GRASSES/GRASSLIKES</b>								
Alkali bluegrass	Poa juncea (syn. P. secunda)	POJU (POSE)	DDDD	PPPP	DDDD	PPPP	PPPP	DDDD
Alkali muhly	Muhlenbergia asperifolia	MUAS	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Alkali sacaton	Sporobolus airoides	SPAI	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP
Baltic rush	Juncus balticus	JUBA	DDDD	UUUU	DDDD	UUUU	UUUU	DDDD
Basin wildrye	Leymus cinereus	LEC4	PPPP	PPPP	PPPP	DDDD	DDDD	PPPP
Bluebunch wheatgrass	Pseudoroegneria spicata	PSSP6	PPPP	PPPP	PPPP	DDDD	DDDD	PPPP
Bluejoint reedgrass	Calamagrostis canadensis	CACAM	PPPP	DDDD	PPPP	DDDD	UUUU	PPPP
Bottlebrush squirreltail	Elymus elymoides	ELELE	PPPP	DDDD	PPPP	DDDD	DDDD	PPPP
Canada wildrye	Elymus canadensis	ELCA4	PPPP	PPPP	PPPP	DDDD	DDDD	PPPP
Canby bluegrass	Poa canbyi (syn. to Poa secunda)	POCA (POSE)	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP
Indian ricegrass	Achnatherum hymenoides	ACHY	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP
Inland saltgrass	Distichlis spicata	DISP	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Inland sedge	Carex interior	CAIN11	DDDD	DDDD	DDDD	UUUU	UUUU	DDDD
James' galleta	Pleuraphis jamesii	PLJA	DDDD	DDDD	DDDD	UUUU	UUUU	DDDD
Letterman needlegrass	Achnatherum lettermanii	ACLE9	PPPP	PPPP	DDDD	DDDD	DDDD	PPPP
Mat muhly	Muhlenbergia richardsonis	MURI	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Nebraska sedge	Carex nebrascensis	CANE2	PPPP	PPPP	PPPP	DDDD	DDDD	PPPP
Needleandthread	Hesperostipa comata	HECO26	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP
Needleleaf sedge	Carex duriscula	CADU6	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Northern reedgrass	Calamagrostis stricta ssp. inexpansa	CAST13	PPPP	DDDD	PPPP	DDDD	UUUU	PPPP
Nuttall's alkaligrass	Puccinellia nuttalliana	PUNU2	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP
Plains reedgrass	Calamagrostis montanensis	CAMO	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Prairie junegrass	Koeleria macrantha	KOMA	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Reed canarygrass	Phalaris arundinacea	PHAR3	PPPP	UUUU	UUUU	UUUU	UUUU	PPPP
Saline wildrye	Leymus salinus	LESA4	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP
Sandberg bluegrass	Poa secunda	POSE	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Sand dropseed	Sporobolus cryptandrus	SPCR	DDDD	DDDD	DDDD	UUUU	UUUU	DDDD
Slender wheatgrass	Elymus trachycaulis	ELTR7	PPPP	PPPP	PPPP	DDDD	DDDD	PPPP
Tall mangrass	Glyceria elata (syn. G. striata)	GLEL (GLST)	DDDD	UUUU	DDDD	UUUU	UUUU	DDDD
Thickspike wheatgrass	Elymus lanceolatus ssp. lanceolatus	ELLAL	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Threadleaf sedge	Carex filifolia	CAF1	DDDD	DDDD	DDDD	DDDD	PPPP	DDDD
Threewaves	Aristida spp.	ARIS	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Tufted hairgrass	Deschampsia caespitosa	DECA18	PPPP	PPPP	PPPP	DDDD	DDDD	PPPP
Western wheatgrass	Pascopyrum smithii	PASM	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
<b>FORBS</b>								
American licorice	Glycyrrhiza lepidota	GLLE3	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Arrowgrass	Triglochin spp.	TRIGL	TTTT	TTTT	TTTT	TTTT	TTTT	TTTT
Asters	Eucephalus spp.	EUCEP2	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Biscuitroot	Lomatium spp.	LOMAT	DDDD	DDDD	UUUU	DDDD	DDDD	DDDD
Blue-eyed grass	Sisyrinchium spp.	SISYR	DDDD	PPPP	DDDD	DDDD	DDDD	DDDD
Buckwheats	Eriogonum spp.	ERIOG	UUUU	DDDD	UUUU	UUUU	UUUU	UUUU
Buttercup	Ranunculus spp.	RANUN	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Clovers	Trifolium spp.	TRIFO	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP
Deathcamas	Zigadenus spp.	ZIGAD	TTTT	TTTT	TTTT	TTTT	TTTT	TTTT
Docks	Rumex spp.	RUMEX	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Elephanthead lousewort	Pedicularis groenlandica	PEGR2	UUUU	DDDD	UUUU	DDDD	UUUU	UUUU
Flax	Linum spp.	LINUM	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Fleabanes	Erigeron spp.	ERIGE2	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Fringed sagewort	Artemisia frigida	ARFR4	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Goldenpea	Thermopsis spp.	THERM	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Goldenweed	Stenotus acaulis	STAC	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Gromwell	Buglossoides arvensis	BUAR3	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Groundsel	Tephrosia spp.	TEPHR3	TTTT	UUUU	TTTT	UUUU	UUUU	TTTT
Hawksbeard	Crepis acuminata	CRAC2	UUUU	PPPP	UUUU	DDDD	DDDD	UUUU
Horsetails	Equisetum spp.	EQUIS	UUUU	UUUU	TTTT	UUUU	UUUU	UUUU
Iris	Iris spp.	IRIS	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Milkvetch (locoweed)	Astragalus spp.	ASTRA	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Miners candle	Cryptantha virgata	CRV14	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Paintbrush	Castilleja spp.	CAST	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Penstemons	Penstemon spp.	PENST	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP
Phlox	Phlox spp.	PHLOX	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Povertyweed	Monolepis spp.	MONOL	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Primrose	Oenothera	OENOT	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Princesplume	Stanleya spp.	STANL	TTTT	TTTT	TTTT	TTTT	TTTT	TTTT
Pussytoes	Antennaria spp.	ANTEN	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Sagebrush gilia	Leptodactylon pungens	LEPU	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Sandwort	Arenaria spp.	ARENA	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Scarlet globemallow	Sphaeralcea coccinea	SPCO	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Scurfpeas	Psoralea spp.	PSORA2	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Stonewort	Sedum spp.	SEDUM	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Tansy	Tanacetum spp.	TANAC	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Toadflax	Comandra umbellata	COUMP	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Violets	Viola spp.	VIOLA	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Water hemlock	Cicuta spp.	CICUT	TTTT	TTTT	TTTT	TTTT	TTTT	TTTT
Waterleaf	Hydrophyllum spp.	HYDRO4	DDDD	DDDD	DDDD	PPPP	DDDD	DDDD
Western yarrow	Achillea millefolium	ACMIO	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Wild onion	Allium textile	ALTE	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Woody aster	Xylorhiza spp.	XYLOR	TTTT	TTTT	TTTT	TTTT	TTTT	TTTT
<b>TREES, SHRUBS &amp; HALF-SHRUBS</b>								
Antelope bitterbrush	Purshia tridentata	PUTR2	PPPP	PPPP	DDDD	PPPP	PPPP	PPPP
Big sagebrush	Artemisia tridentata	ARTR2	DDDD	DDDD	UUUU	DDDD	DDDD	DDDD
Birdfoot sagebrush	Artemisia pedatifida	ARPE6	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Bud sagewort	Artemisia spinescens	ARSP5	PPPP	PPPP	DDDD	PPPP	PPPP	PPPP
Buffalobery	Shepherdia spp.	SHEPH	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Cottonwood (sprouts only)	Populus angustifolia	POAN3	PPPP	PPPP	PPPP	PPPP	UUUU	PPPP
Current	Ribes spp.	RIBES	DDDD	DDDD	DDDD	DDDD	UUUU	DDDD
Early (alkali) sagebrush	Artemisia arbuscula ssp. longiloba	ARARL	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Fourwing saltbush	Atriplex canescens	ATCA2	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP
Gardners saltbush	Atriplex gardneri	ATGA	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP
Greasewood (toxic in large amounts)	Sarcobatus vermiculatus	SAVE4	DDDD	DDDD	UUUU	DDDD	DDDD	DDDD
Greenmolly sumac	Kochia americana	KOMA	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Green rabbitbrush	Chrysothamnus viscidiflorus	CHV18	DDDD	DDDD	UUUU	PPPP	PPPP	DDDD
Hawhorn	Crataegus spp.	CRATA	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Junipers	Juniperus scopulorum	JUSC2	UUUU	UUUU	UUUU	DDDD	UUUU	UUUU
Limber pine	Pinus flexilis	PIFL2	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Low sagebrush	Artemisia arbuscula	ARAR8	DDDD	DDDD	UUUU	DDDD	DDDD	DDDD
Rubber rabbitbrush	Ericameria nauseosa	ERNA10	UUUU	DDDD	UUUU	DDDD	PPPP	UUUU
Shadscale	Atriplex confertifolia	ATCO	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Shrubby cinquefoil	Dasiphora floribunda	DAFL3	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Silver sagebrush	Artemisia cana	ARCA13	DDDD	DDDD	DDDD	PPPP	PPPP	DDDD
Skunkbush sumac	Rhus trilobata	RHTR	DDDD	DDDD	UUUU	DDDD	DDDD	DDDD
Spineless horsebrush	Tetradymia canescens	TECA2	UUUU	TTTT	UUUU	UUUU	UUUU	UUUU
Spiny hopsage	Grayia spinesa	GRSP	UUUU	UUUU	UUUU	UUUU	UUUU	UUUU
Spiny horsebrush	Tetradymia spinosa	TESP2	UUUU	DDDD	UUUU	UUUU	DDDD	UUUU
Wildrose	Rosa woodsii var. woodsii	ROWOW	DDDD	DDDD	DDDD	DDDD	DDDD	DDDD
Willows	Salix spp.	SALIX	DDDD	DDDD	DDDD	PPPP	UUUU	DDDD
Winterfat	Krascheninnikovia lanata	KRAL2	PPPP	PPPP	PPPP	PPPP	PPPP	PPPP

N = not used; U = undesirable; D = desirable; P = preferred; T = toxic

## Animal Community – Grazing Interpretations

The following table lists suggested stocking rates for cattle under continuous season-long grazing under normal growing conditions. These are conservative estimates that should be used only as guidelines in the initial stages of the conservation planning process. Often, the current plant composition does not entirely match any particular plant community (as described in this ecological site description). Because of this, a field visit is recommended, in all cases, to document plant composition and production. More precise carrying capacity estimates should eventually be calculated using this information along with animal preference data, particularly when grazers other than cattle are involved. Under more intensive grazing management, improved harvest efficiencies can result in an increased carrying capacity. If distribution problems occur, stocking rates must be reduced to maintain plant health and vigor.

Plant Community	Production (lb./ac)	Carrying Capacity* (AUM/ac)
Indian Ricegrass/Greasewood (HCPC)	400-900	.2
Greasewood/Gardner's saltbush	100-500	.05

\* - Continuous, season-long grazing by cattle under average growing conditions.

Grazing by domestic livestock is one of the major income-producing industries in the area. Rangeland in this area may provide yearlong forage for cattle, sheep, or horses. During the dormant period, the forage for livestock use needs to be supplemented with protein because the quality does not meet minimum livestock requirements.

## Hydrology Functions

Water and salinity/alkalinity are the principal factors limiting forage production on this site. This site is dominated by soils in hydrologic group C, with localized areas in hydrologic groups B and D. Infiltration ranges from slow to moderate. Runoff potential for this site varies from moderate to high depending on soil hydrologic group and ground cover. In many cases, areas with greater than 75% ground cover have the greatest potential for high infiltration and lower runoff. Areas where ground cover is less than 50% have the greatest potential to have reduced infiltration and higher runoff (refer to Part 630, NRCS National Engineering Handbook for detailed hydrology information).

Rills are not typically present, but ephemeral gullies may be present. Water flow patterns should be barely distinguishable if at all present. Pedestals are only slightly present in association with bunchgrasses and greasewood. Litter typically falls in place, and signs of movement are not common. Chemical and physical crusts are common.

## Recreational Uses

This site provides limited hunting opportunities.

## Wood Products

No appreciable wood products are present on the site.

## Other Products

None noted.

## Supporting Information

## Associated Sites

Saline Upland	R034AY144WY
Saline Lowland	R034AY138WY

## Similar Sites

R034AY138WY – Saline Lowland (SL) 7-9GR is a moister site without Gardner's Saltbush.  
R034AY240WY – Saline Lowland, drained (SLdr) 10-14W has higher production.

## Inventory Data References (narrative)

Information presented here has been derived from NRCS clipping data and other inventory data. Field observations from range trained personnel were also used. Those involved in developing this site include: Bill Christensen, Range Management Specialist, NRCS; Karen Clause, Range Management Specialist, NRCS; and Everet Bainter, Range Management Specialist, NRCS. Other sources used as references include: USDA NRCS Water and Climate Center, USDA NRCS National Range and Pasture Handbook, and USDA NRCS Soil Surveys from various counties.

## Inventory Data References

<u>Data Source</u>	<u>Number of Records</u>	<u>Sample Period</u>	<u>State</u>	<u>County</u>
SCS-RANGE-417	50	1966-1985	WY	Sweetwater & others

## State Correlation

## Type Locality

## Field Offices

Baggs, Cokeville, Rock Springs/Farson, Lyman, Pinedale, Saratoga

## Relationship to Other Established Classifications

## Other References

## Site Description Approval

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State Range Management Specialist

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Date